

1.1.7 2030 U.S. Buildings Energy End-Use Splits, by Fuel Type (Quadrillion Btu)

	Natural	Fuel	Other		Renw.	Site	Site		Primary	Primary	
	Gas	Oil (1)	LPG	Fuel(2)	En.(3)	Electric	Total	Percent		Electric (4)	Total
Space Heating (5)	5.05	0.53	0.20	0.10	0.58	0.67	7.12	32.2%	2.04	8.50	18.9%
Lighting						1.72	1.72	7.8%	5.24	5.24	11.6%
Space Cooling	0.04					1.53	1.57	7.1%	4.66	4.70	10.4%
Water Heating	1.98	0.06	0.04		0.03	0.59	2.70	12.2%	1.78	3.89	8.6%
Electronics (6)						0.83	0.83	3.7%	2.51	2.51	5.6%
Refrigeration (7)						0.82	0.82	3.7%	2.49	2.49	5.5%
Ventilation (8)						0.68	0.68	3.1%	2.06	2.06	4.6%
Computers						0.39	0.39	1.8%	1.19	1.19	2.6%
Wet Cleaning (9)	0.05					0.32	0.38	1.7%	0.99	1.04	2.3%
Cooking	0.47		0.03			0.16	0.66	3.0%	0.49	0.99	2.2%
Other (10)	0.63	0.02	0.36	0.05	0.06	2.66	3.77	17.0%	8.07	9.18	20.4%
Adjust to SEDS (11)	0.49	0.11				0.88	1.48	6.7%	2.67	3.27	7.3%
Total	8.71	0.72	0.63	0.14	0.67	11.26	22.13	100%	34.19	45.06	100%

Note(s): 1) Includes distillate fuel oil (0.65 quad) and residual fuel oil (0.07 quad). 2) Kerosene (0.03 quad) and coal (0.07 quad) are assumed attributable to space heating. Motor gasoline (0.05 quad) assumed attributable to other end-uses. 3) Comprised of wood space heating (0.54 quad), biomass (0.11 quad), solar water heating (0.03 quad), geothermal space heating (0.04 quad), solar photovoltaics (PV) (0.05 quad), and wind (less than 0.01 quad). 4) Site-to-source electricity conversion (due to generation and transmission losses) = 3.04. 5) Includes furnace fans (0.58 quad). 6) Includes color television (1.18 quad) and other office equipment (2.53 quad). 7) Includes refrigerators (2.24 quad) and freezers (0.26 quad). Includes commercial refrigeration. 8) Commercial only; residential fan and pump energy use included proportionately in space heating and cooling. 9) Includes clothes washers (0.09 quad), natural gas clothes dryers (0.05 quad), electric clothes dryers (0.58 quad) and dishwashers (0.32 quad). Does not include water heating energy. 10) Includes residential small electric devices, heating elements, motors, swimming pool heaters, hot tub heaters, outdoor grills, and natural gas outdoor lighting. Includes commercial service station equipment, ATMs, telecommunications equipment, medical equipment, pumps, emergency electric generators, combined heat and power in commercial buildings, and manufacturing performed in commercial buildings. 11) Energy adjustment EIA uses to relieve discrepancies between data sources. Energy attributable to the residential and commercial buildings sector, but not directly to specific end-uses.

Source(s): EIA, Annual Energy Outlook 2011 Early Release, Dec. 2010, Summary Reference Case Tables, Tables A2, p. 3-5, Table A4, p. 9-10, Table A5, p. 11-12, and Table A17, p. 34-35; EIA, National Energy Modeling System (NEMS) for AEO 2011 Early Release, Dec. 2010,